

Title (en)  
RESAMPLING AND PICTURE RESIZING OPERATIONS FOR MULTI-RESOLUTION VIDEO CODING AND DECODING

Title (de)  
NEUABTASTUNGS- UND BILDUMBEMESSUNGSOPERATIONEN ZUR VIDEOCODIERUNG UND DECODIERUNG MIT MEHRFACH-AUFLÖSUNG

Title (fr)  
OPERATIONS DE REECHANTILLONNAGE ET DE REDIMENSIONNEMENT D'IMAGES DESTINEES A UN CODAGE ET DECODAGE VIDEO A RESOLUTIONS MULTIPLES

Publication  
**EP 1985120 B1 20190904 (EN)**

Application  
**EP 07717801 A 20070108**

Priority

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- US 82951506 P 20061013

Abstract (en)  
[origin: US2007160153A1] Techniques and tools for high accuracy position calculation for picture resizing in applications such as spatially-scalable video coding and decoding are described. In one aspect, resampling of a video picture is performed according to a resampling scale factor. The resampling comprises computation of a sample value at a position i,j in a resampled array. The computation includes computing a derived horizontal or vertical sub-sample position x or y in a manner that involves approximating a value in part by multiplying a  $2^{<SUP>n</SUP>}$  value by an inverse (approximate or exact) of the upsampling scale factor. The approximating can be a rounding or some other kind of approximating, such as a ceiling or floor function that approximates to a nearby integer. The sample value is interpolated using a filter.

IPC 8 full level  
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